```
transducer protein hemAT [validated] - Halobacterium salinarum
                                                                                                                          D843205
C87302
A84328
A47190
E84318
T44254
H84257
T44258
G841337
C69832
D87533
                                                                             ALIGNMENTS
                                                                                                                       transducer protein
methyl-accepting c
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chemotactic transd
methyl-accepting c
methyl-accepting c
methyl-accepting c
                                                                                                                                                                                                                                                                                           methyl-accepting c
Htr2 transducer [1
transducer protein
Htr1 transducer [1
                                                                                                                                                                                                                                                              transducer protein Htr13 transducer [
                                                                                                                                                                                                                                                                                                                          Htr17 transducer methyl-accepting Htr2 transducer
```

Database Post-processing: Maximum Minimum Total number of hits satisfying chosen parameters: score Pred. No. is the number of results predicted by chance to have score greater than or equal to the score of the result being pa DB DB seq length:
seq length: PIR_73:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:* Minimum Match 0% Maximum Match 100% Listing first 45 su pir1:*
pir2:*
pir3:*
pir4:* 2000000000 summaries printed,

Scoring table:

BLOSUM62

Sequence: Title: Perfect score:

US-09-455-978B-2 2394

1 MSNDNDTLYTADVRNGIDGH.....ATDQQVRTVEEVRETVGKLS

489

413 412.5 409.5 408 408 408.5

Searched:

283224 seqs, 96134422 residues Gapop 10.0 , Gapext 0.5 .

RESULT 1 T44978

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protein -

protein search, using sw model

Copyright

GenCore version 5.1.3 (c) 1993 - 2003 Compus

Compugen Ltd

January 2, 2003, 12:39:57; Search time 21 Seconds (without alignments) 2238.559 Million cell updates/sec

444443333333 4444443365443310

20.8 19.9 19.4 119.4 119.3 119.3 117.5 117.5 117.3 117.3 117.3

461 452.5 439.5 419.5

464 463.5 463.5

Run on:

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D):	transducer protein	T44276	N	419	20.8	497.5	29
	Htr14 transducer (F84194	N	627	20.9	499.5	28
Qy	transducer protein	T44989	N	773	21.0	502.5	27
	transducer protein	T44253	_	642	21.1	505	. 26
늉	. Htrl2 transducer [C84298	N	420	21.1	506	25
_	transducer protein	T44262	N	788	21.2	507.5	24
γo	Htr6 transducer [1	E84236	N	789	21.3	509.5	23
	halobacterial tran	T46811	N		21.8	521	22
망	Htr7 transducer [1	E84327	N		21.8	521	21
	Htr16 transducer [F84219	ຎ		21.8	521.5	20
Qy	Htr8 transducer [1	H84305	N	643	21.9	523.5	19
	transducer protein	T44938	N	544	21.9	523.5	18
문	transducer protein	T44964	N	451	21.9	524	17
	transducer protein	T44606.	N	804	22.1	529	16
Ϋ́	Htr15 transducer {	A84252	N	636	22.4	535.5	15
	sensory rhodopsin	S55299	N	534	22.5	537.5	14
ф	transducer protein	T44597	N	.777	22.6	540.5	13
	halobacterial tran	T46810	N	810	23.1	554	12
ν	Htr5 transducer [i	F84327	ພ	810		555	11
	transducer protein	T44849	N	452	. 23.4	560.5	10
뮹	transducer protein	T48897	N	778	23.9	573	9
_	Htr4 transducer [i	F84237	2	778	24.1	578	80
δò	Htrl8 transducer [B84238	N	790	24.2	580	7
	transducer protein	T48840	N	805	24.9	597	6
ма	Htr3 transducer [1	н84336	N	633	24.9	597	₅
Ве	transducer protein	T44973	N	482	25.5	609.5	4
20	Htr9 transducer [i	A84294	N	481	26.9	643	w
	Htrl0 transducer [E84304	N	489	98.6	2360	2
C; Ke	transducer protein	T44978	2	489	100.0	2394	ш
C;Su			:				
A; De	Description	ID	80	Match Length DB	Match	Score	NO.
C; Fu					Query		Result
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181

121 121 61

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240 180 180 120 120 60

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DDQVDRWADVSREISSVSASVEEVASTADDVRRTSEDAEALAQQGEAAADDALATWTDID

DDQVDRMADVSREISSVSASVEEVASTADDVRRTSEDAEALAQQGEAAADDALATMTDID

ADALVTDEYDHLESYERTQDLFANSTKTVEQLKETQAEYLLGLGRGEYDTEYAAQRARIG

ADALYTDFYDHLESYERTQDLFANSTKTVEQLKETQABYLLGLGRGEYDTEYAAQRARIG

MSNDNDTLYTADVRNGIDGHALADRIGLDEAEIAWRLSFTGIDDDTMAALAAEQPLFEAT

		0; Gaps	489; 0;	Length 489; Indels 0	DB 2; 4e-98; 0;	Query Match 100.0%; Score 2394; DB 2; Best Local Similarity 100.0%; Pred. No. 8.4e-98; Matches 489; Conservative 0; Mismatches 0;
						c/sc/morane mount mountaine acts/ prime
			_	ein htri	er prot	C;Superfamily: Halobacterium salinarum transducer protein htri
41	sensing	in oxygen	olved :	ion; inv	ansduct	A; Description: involved in aerotactic signal transduction; involved in oxygen sensing
						C. Flinction.
					-	C;Genetics:
_ [narium	um sali	A; Note: the source is designated as Halobacterium salinarium
						A; Experimental source: strain Flx15
		g1654421	; PID:	B17881.1	PIDN: AA	A;Cross-references: EMBL:U75436; NID:g1654420; PIDN:AAB17881.1; PID:g1654421
						A; Residues: 1-489 < ZHA>
-						A; Molecule type: DNA
					DBJ	A; Status: preliminary; translated from GB/EMBL/DDBJ
						A; Accession: T44978
				80	:864345	A; Reference number: Z22804; MUID: 96209786; PMID: 8643458
	ssed	m is proce	inariu	rium sal	lobacte	A; Title: Signal transduction in the archaeon Halobacterium salinarium is processed
					96	Proc. Natl. Acad. Sci. U.S.A. 93, 4649-4654, 19
				am, M.	P.; A1	R; Zhang, W.; Brooun, A.; McCandless, J.; Banda, P.; Alam, M.
		•				C; Accession: T44978
		ep-2000	le 15-Se	xt_chang	000 #te	C;Date: 21-Jan-2000 #sequence_revision 21-Jan-2000 #text_change 15-Sep-2000
						C; Species: Halobacterium salinarum
į.d.	trans	otein htB;	icer pro	transdu	in htB;	N; Alternate names: methyl-accepting taxis protein htB; transducer protein htB; transd